

American Recovery and Reinvestment Act
Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)
INFRASTRUCTURE AND INTEROPERABILITY SUPPORT FOR PUBLIC
HEALTH LABORATORIES

Massachusetts Department of Public Health (MDPH) Budget Request

All ARRA funding received at MDPH, including funds received as part of the ELC cooperative agreement, will be assigned a unique appropriation number. The use of a unique appropriation number ensures that all ARRA funds remain separate from all other funds, ARRA funds will not be comingled with other funding sources and are received, tracked and reported separately from other funding sources including other ARRA funding sources.

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A. Personnel: \$132,000

Program Coordinator III - new position 1.0 FTE 22 months \$132,000
This individual will provide programmatic support and subject matter expertise for Electronic Laboratory Reporting (ELR) efforts, electronic medical record (EMR) reporting and PHIN-MS implementation for the Bureau of Infectious Diseases Response and Services (BID). This will involve validation of mapping of local codes to LOINC and SNOMEDs, assessment of reporting and certification, and validation of PHIN-MS messaging content. In addition, the individual will manage on-going communications and provide quality control support to providers (clinical and commercial laboratories, community health centers, hospitals and other health care providers) sending the data as well as quality assurance once the data have been received by Massachusetts Virtual Epidemiologic Network (MAVEN) Electronic Disease Surveillance System (MAEDSS). Further, this individual will oversee communications with Centers for Disease Control and Prevention (CDC) regarding PHIN-MS implementation.

B. Fringe Benefits: \$46,332.42

The fringe benefit rate is 25.8435.03% of salaries and wages for the above-listed positions,
Plus Universal Health chargeback of \$17/person/year and payroll chargeback of \$75/person/year.

C. Consultant: \$0

D. Equipment: \$0

E. Supplies: \$0

F. Contractual: \$866,500

1. Contractor will provide technical support for data transfer between Massachusetts BID Bureau of Infectious Diseases and CDC Centers for Disease Control and Prevention \$360,000

Name of Contractor: Contractor will be chosen from a list of contractors that provide services as outlined in scope of service. The list of contractors is compiled by the Massachusetts Operational Service Center after an extensive competitive procurement, background checks and establishment of quality, and pricing agreements

Method of Selection: This contract was/will be competitively procured in accordance with Massachusetts Law, 801 CMR 21.

Period of Performance: July 1 September 1, 2010 – June 30 August 31, 2012 (24 months)

Scope of work: The contractor will provide technical support and subject matter expertise for ELR, EMR electronic medical record reporting, HL7 support, and guide PHIN-MS implementation efforts to send data from the BID to CDC. Further, this contractor will oversee all technical aspects of messaging between the electronic data reporting infrastructure and MAVENMAEDSS.

Method of Accountability: The contractor will report to the Division/Director for Informatics for the MDPH Massachusetts Department of Public Health.

Budget: \$360,000 (approximately \$15,000 monthly = \$94.00 hourly)

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2. Project Management for ELR and EMR electronic laboratory and health record reporting \$140,000

Name of Contractor: Contractor will be chosen from a list of contractors that provide services as outlined in scope of service. The list of contractors is compiled by the Massachusetts Operational Service Center after an extensive competitive procurement, background checks and establishment of quality, and pricing agreements

Method of Selection: This contract was/will be competitively procured in accordance with Massachusetts Law, 801 CMR 21.

Period of Performance: July 1 September 1, 2010 – June 30 August 31, 2012 (24 months)

Scope of work: Contractor will provide continued project management for the implementation of the ELR electronic laboratory reporting project with the remaining clinical and commercial laboratories and the Hinton State Laboratory Institute (HSI). Currently, 32 of 76 clinical hospitals and one commercial laboratory were reporting via ELR. Contractor will also provide project management for the implementation of electronic messaging between EMRs and MAVENMAEDSS.

Method of Accountability: The contractor will report to the Division/Director for Informatics for MDPH the Massachusetts Department of Public Health.

Budget: \$140,000 (approximately \$5,833 monthly = \$37.00 hourly)

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| **3.** Enhance ELR systems by allowing E-Orders and retrieval of testing results
\$42,000

Name of Contractor: Contractor will be chosen from a list of contractors that provide services as outlined in scope of service. The list of contractors is compiled by the Massachusetts Operational Service Center after an extensive competitive procurement, background checks and establishment of quality, and pricing agreements

Method of Selection: This contract was/will be competitively procured in accordance with Massachusetts Law, 801 CMR 21.

| *Period of Performance:* ~~July 1~~September 1, 2010 – ~~February 28~~April 31, 2011 (8 months)

Scope of work: Contractor will enhance the existing Lab ELR system to allow existing ELR providers the ability to submit electronic orders (e-orders) and retrieve electronic results in HL7 format for all clinical testing conducted by MPHL. This work will be completed within the first eight 8-months of the grant period.

Method of Accountability: The contractor will report to the Division/Director for Informatics for the ~~MDPH~~Massachusetts Department of Public Health.

Budget: \$42,000 E-Orders for all HSLI Laboratories

Portal and order web service \$10,000
Lab request batches \$6,000
Lab report batches \$8,000
Integration setup and test \$6,000
Integration support \$12,000

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| **4.** Hospital Implementation of E-Orders \$20,000

Name of Contractor: Contractor will be chosen from a list of contractors that provide services as outlined in scope of service. The list of contractors is compiled by the Massachusetts Operational Service Center after an extensive competitive procurement, background checks and establishment of quality, and pricing agreements

Method of Selection: This contract was/will be competitively procured in accordance with Massachusetts Law, 801 CMR 21.

| *Period of Performance:* May 1, 2011 to December 31, 2011 (8 months)

~~July 1, 2010 – February 28, 2011~~ (8 months)

Scope of work: Contractor will also work with MPHL and two funded hospitals to implement HL7 e-orders and e-results between MPHL and the hospital Laboratory Information Management System (LIMS). — The cost for each

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Comment [PK1]: I am trying to describe the acronyms but do not know what this one is but it should be explained.

funded ____ hospital site deployment is \$10,000. This includes--development of messaging structure, testing and deployment services for each --selected site. This work will begin eight8 months after the grant period begins. MPHL --plans to interface with ____ two large funded hospital sites that submit a large volume --of samples to MPHL ____ for testing.

Method of Accountability: The contractor will report to the Division/Director for Informatics for the MDPHassachusetts Department of Public Health.

Budget: \$20,000 -(\$10,000 per hospital)

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5. Childhood Lead Screening Laboratory (CLSL) ELR Interfacing and Reporting \$36,000

Name of Contractor: Contractor will be chosen from a list a contractors that Provide services as outline in scope of service. The list of contractors is complied by the Massachusetts Operational Service Center after an extensive competitive procurement, background checks and establishment of quality, and pricing agreements

Method of Selection: This contract was/will be competitively procured in accordance with Massachusetts Law, 801 CMR 21.

Period of Performance: July 1September 1, 2010 – August October 30, 2011 (14 months)

Scope of work: Contractor will create a General Provider Message (PRM) message for the Childhood-Lead Screening-Laboratory-(CLSL) to allow link the LIMS with the ELR system and —— the ____ MPHL master provider/submitter table. The message format used for this is —— General Provider Message (PRM), —— an XML message. Contractor will also update —— the laboratoryLab for CLSL providers _to electronically check on the status of lead test ——results and print copies of lead ____ test results on line. This work will be completed 14 -months after the grant begins.

Method of Accountability: The contractor will report to the Division/Director for Informatics for the MDPHassachusetts Department of Public Health.

Budget: \$36,000

Provider Site (PRM) \$6,000,
Lab Admin Site \$6,000,
Lab Requests \$6,000
Lab Reports \$12,000
Integration Setup and Test \$6,000

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6. IT project management LIMS support services \$268,500

Name of Contractor: Contractor will be chosen from a list a contractors that Provide services as outline in scope of service. The list of contractors is complied by the Massachusetts Operational Service Center after an extensive competitive

procurement, background checks and establishment of quality, and pricing agreements

Method of Selection: This contract was/will be competitively procured in accordance with Massachusetts Law, 801 CMR 21.

Period of Performance: July 1 September 1, 2010 – June 30 August 31, 2012 (24 months)

Scope of work: Contractor will provide IT project management LIMS support services. This includes the coordination of a detailed work plans, a project plan, WBS and status reports for the implementation of the Viral Serology, Reference Bacteriology and CLSL components into the LIMS, including required ELR and Rhapsody interfacing and messaging for each new LIMS component. Specific application development activities include the implementation of HL7 messaging, deployment of the WebLogic JMS Bridge, which allows PHIN compliant communication between the SLIS LIMSaboratory Information Management System (LIMS) and ELR, development of detailed specifications for the SLIS Viral Serology, CLSL and Reference Bacteriology LIMS modules. ~~VT~~ ~~Regina~~ ~~Contactor~~ will also provide HL7 SME services, including the identification of data elements needed for accepting electronic orders and reports, coordinating participation with PHLIP vocabulary standards for other reportable conditions beyond Influenza and assisting in the review of all proposed HL7 and MDPH ORM message structures changes. The Reference Bacteriology, Viral Serology and Childhood Lead Screening Laboratory (CLSL) LIMS components will be deployed within the first 12 months in the grant period. This includes submitting reportable laboratory results to the BID and other public health agencies using HL7 and LOINC and SNOMED vocabulary standards. Results transmitted during this period will be in testing to certify the message structure and vocabulary.

Method of Accountability: The contractor will report to the Division/Director for Informatics for the MDPH Massachusetts Department of Public Health.

Budget: \$268,500

Project Management LIMS HL7 SME and Support Services:
-Reference Bacteriology and Viral Serology LIMS Integration (\$49,000)
-Childhood Lead Screening Laboratory (\$24,500)

Application programming support to augment existing in-house application support staff
-J2EE and Hibernate Support for Reference Bacteriology- \$63,750
-.NET and SQL for Viral Serology -\$65,625
-.NET and SQL for Childhood Lead Screening Laboratory
\$65,625

G. Construction: \$0

H. Other: \$4,400

Software - \$4,400

Funding is requested for two Rhapsody IDE ComPoint to be used for

Childhood Lead Screening Laboratory ELR messaging and _____

_____ interfacing.

---(Cost \$2,200 ea.)

J. Indirect Costs: \$20,064

Indirect charges are based upon the current Department of Health and Human Services and Commonwealth of Massachusetts negotiated indirect cost rate of 15.2% of salaries and wages.

K. Total Request \$1,069,296.388